# Monday October 16th Programme oral presentations

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<tr>
<th>Time</th>
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<tr>
<td>07:00 - 08:30</td>
<td>Registration</td>
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<td>08:30 – 10:30</td>
<td>Grote Zaal</td>
<td><em>Plenary session PL1.01</em>&lt;br&gt;<em>Opening session and the Dutch DOHaD Experience</em>&lt;br&gt;Chair: V. Jaddoe / L. Poston&lt;br&gt;8:30 PL1.01.01 Welcome V. Jaddoe, Rotterdam / J. van Leeuwen, Rotterdam&lt;br&gt;9:00 PL1.01.02 DOHaD in 2017 M. Hanson, Southampton&lt;br&gt;9:30 PL1.01.03 What did we learn from historical cohort studies T. Roseboom, Amsterdam&lt;br&gt;10:00 PL1.01.04 Preconception and embryonic origins of health E. Steegers, Rotterdam</td>
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<tr>
<td>10:30 – 11:00</td>
<td>Coffee break</td>
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<tr>
<td>11:00 – 12:30</td>
<td>Arcadis Zaal / Eduard Flipse Zaal</td>
<td><em>Parallel session PA1.01</em>&lt;br&gt;<em>Endocrine programming</em>&lt;br&gt;Chair: S. Matthews / R. Peeters&lt;br&gt;11:00 PA1.01.01 Stress, glucocorticoids and the developing brain S. Matthews, Toronto&lt;br&gt;11:20 PA1.01.03 Fetal thyroid hormone exposure R. Peeters, Rotterdam&lt;br&gt;Submitted abstracts (8 minute orals)&lt;br&gt;PA1.01.05 Leptin trajectories from birth to mid-childhood and early adolescence cardio-metabolic outcomes: Findings from project Viva L. Li, Singapore&lt;br&gt;PA1.01.06 Prenatal air pollution exposure and newborn thyroid function C. Howe, Los Angeles&lt;br&gt;PA1.01.07 Maternal thyroid function during pregnancy and offspring depression and anxiety: A study from Avon Longitudinal Study of Parents and Children D. Fetene, Brisbane&lt;br&gt;PA1.01.08 Association between maternal thyroid function in early pregnancy and offspring autistic traits: meta-analysis of three prospective birth cohorts D. Levie, Barcelona</td>
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Monday, October 16th

**Programme**

**Oral presentations**

- D. Levie, Barcelona: **traits**: meta-analysis of three
- **Association between maternal** and newborn thyroid function
- **Maternal thyroid function** during pregnancy and offspring
- **Prenatal air pollution exposure**
- **Parents and Children** from Avon Longitudinal Study of
- **L. Li, Singapore: Viva**
- **adolescence cardio-metabolic**
- **R. Peeters, Rotterdam: hormone exposure**
- **S. Matthews, Toronto: developing brain**
- **E. Steegers, Rotterdam: and embryonic origins of health**
- **T. Roseboom, Amsterdam: What did we learn from historical**
- **V. Jaddoe, Rotterdam / J. van**
- **M. Hanson, Southampton: PL1.01.02 DOHaD in 2017**
- **PL1.01.01 Welcome**
- **C. Wang, Beijing: Controlled Trial**
- **Women: A Randomized**
- **Prevent Gestational Diabetes**
- **Exercise During Pregnancy To**
- **E. O’Brien, Dublin: from the i-WIP collaboration**
- **attainment? IPD meta-analysis**
- **Which lifestyle interventions**
- **J. Dodd, North-Adelaide: LIMIT trial.**
- **Outcomes: follow-up from the**
- **obese women on 6-month infant**
- **Effects of an antenatal dietary**
- **PA1.02.05 (8 minute orals)**
- **PA1.02.03 A little less**
- **11:20 L. Poston, London: interventions: where are we?**
- **PA1.02.01 Pregnancy**
- **Chairs: L. Poston / J. Wright**
- **PA1.03.03 Epigenetics**
- **Submitted abstracts**
- **11:20 R. Waterland, Houston: disease**
- **influences on metastable**
- **PA1.03.01 Early nutritional**
- **PA1.03.05 Submitted abstracts**
- **11:00 PA1.03.03 Epigenetic**
- **11:00 PA1.05.01 Lifecourse**
- **11:00 PA1.04.01 Early kidney development and**
- **11:20 PA1.05.03 Prenatal**
- **V. Luyckx, Zürich: to inborn nephron deficit in**
- **H. Bakker, Rotterdam: Early longitudinal kidney growth**
- **H. Baameur – El Marroun, Rotterdam: DNA hypomethylation of**
- **PA1.04.05 (8 minute orals)**
- **PA1.04.08 The association between duration**
- **A. Kindt, Neuherberg: Metabolomics in Gestational**
- **PA1.04.03 Early kidney development and**
- **A. Shum, Hong Kong: Deficiency in retinoic acid leads**
- **A. Antonysunil, Warwick: PPARγ and insulin resistance**
- **Low vitamin B12 in pregnancy is**
- **PA1.04.07 Deficiency in retinoic acid leads**
- **PA1.04.06 Early longitudinal kidney growth**
- **PA1.05.08 The association between duration**
- **J. Bertram, Clayton: Early childhood: A critical period**
- **R. Chevalier, Charlotsville: Birth weight and postnatal**
- **PA1.05.06 Metabolomics in Gestational**
- **J. Ingelfinger: Chairs: V. Luyckx / J. Ingelfinger**
- **B. Bakker, Rotterdam: Deficiency in retinoic acid leads**
- **to inborn nephron deficit in offspring exposed to diabetes**
- **in utero**
- **A. Shum, Hong Kong**
- **PA1.04.08 Birth weight and postnatal**
- **weight influence glomerular**
- **podocyte number and renal**
- **pathophysiology**
- **J. Bertram, Clayton**
- **PA1.05.06 Metabolomics in Gestational**
- **diabetes mellitus: transgenerational correlations**
- **and impact of maternal**
- **phenotypes on offspring metabolites**
- **A. Kindt, Neuherberg**
- **PA1.04.07 Deficiency in retinoic acid leads**
- **to inborn nephron deficit in offspring exposed to diabetes**
- **in utero**
- **A. Shum, Hong Kong**
- **PA1.04.08 Birth weight and postnatal**
- **weight influence glomerular**
- **podocyte number and renal**
- **pathophysiology**
- **J. Bertram, Clayton**
- **PA1.05.06 Metabolomics in Gestational**
- **diabetes mellitus: transgenerational correlations**
- **and impact of maternal**
- **phenotypes on offspring metabolites**
- **A. Kindt, Neuherberg**
- **PA1.05.07 The association between duration**
- **of breastfeeding and type 2 diabetes in adulthood: influence**
- **from potential confounders**
- **L. Bjerregaard, Fredriksberg**
- **PA1.05.08 Life-course accumulation of socioeconomic adversities and**
- **obesity: a 46-year follow-up of the Northern Finland Birth Cohort**
- **E. Lowry, Oulu**

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<td>12:30 – 13:50</td>
<td>Lunch break</td>
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<tr>
<td>12:40 – 13:40</td>
<td>Lunch meeting LM1.01</td>
<td>Slam session</td>
<td>Maternal and fetal health</td>
<td>Lunch meeting LM1.03</td>
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<td></td>
<td>B. Koletzko, Munich</td>
<td>LM1.01.01 Trainee lunch workshop: How to write a successful grant</td>
<td>Chairs: E. Steegers / S. Matthews</td>
<td>DOHaD Australia and New Zealand symposium</td>
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<td></td>
<td>Coordinator EU-FP7 Early Nutrition Project</td>
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<td>Submitted abstracts (4 minute orals) LM1.02.01</td>
<td>Chair: B. Mulhauser</td>
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<tr>
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<td>Assessment of adaptive cerebrovascular changes in fetuses of diabetic mothers on two-dimensional obstetrics ultrasound N. Mohammed, Karachi</td>
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<td></td>
<td>Associations of gestational diabetes and glucose levels with ultrasound scan assessed fetal growth in South Asian and White European women. J. Brand, Bristol</td>
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<td></td>
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<td>Association of maternal and cord blood adipokines with offspring adiposity in project Viva: Is there an interaction with child age? L. Li, Singapore</td>
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<td>Association of fetal fractional limb volume at 20 and 30 weeks gestation with newborn body composition S. Ikenoue, Saitama</td>
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<td>Feasibility of three-dimensional power Doppler ultrasound and Virtual Reality measurements of (uteroplacental vascularization as non-invasive biomarkers of (uteroplacental health I. Reijnders, Rotterdam</td>
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<td>Role of placental, amniotic and cord blood microbiome in the colonisation of the infant gut: a systematic review C. Edwards, Glasgow</td>
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<td>Prenatal exposure to maternal anxiety and emotion processing at age 4 years: an event-related potential study M. van den Heuvel, Detroit</td>
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Lunch meeting LM1.04
DOHaD Africa symposium
Chair: S. Norris
LM1.04.01
International Society of Developmental Origins of Health and Disease: Launch of the DOHaD Africa Chapter
S. Norris
LM1.04.08
Association between maternal and household socioeconomic status with birth and infant growth outcomes in sub Saharan Africa: a systematic review and meta-analysis
N. Bwangandu, Johannesburg
LM1.04.10
Proposal to investigate the iodine status and thyroid function of South African pregnant women and the impact on their offspring
J. Osei, Bloemfontein

Lunch meeting LM1.05
DOHaD Japan symposium
Chair: H. Itoh
LM1.05.01
Nutritional perspectives on maternal and child health in Japan for strategic transforming lifestyle and dining
H. Fukuoka, Tokyo
LM1.05.03
Fetal exposure to PCBs and alteration of DNA methylation in umbilical cord found in birth cohort in Japan
C. Mori, Chiba City
LM1.05.07
A maternal diet with moderately high-fat modulates adipose gene expression of glucose, lipid metabolism in the offspring
T. Sugiyama, Toon
LM1.05.09
Undernourishment in utero as well as endoplasmic reticulum stress alleviation affects lipid profile of the mice fatty liver
H. Itoh, Hamamatsu
LM1.05.11
Japan Environment and Children’s Study (JECS) - Study design and present status
M. Kamijima, Nagoya
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<tr>
<td>LM1.02.08</td>
<td>Positive maternal mental health during pregnancy associated with specific forms of adaptive development in early childhood</td>
<td>D. Phua, Singapore</td>
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<td>LM1.02.10</td>
<td>Maternal circulating cotinine concentration in pregnancy and offspring weight and body mass index (BMI) in the first 36 months</td>
<td>S. Chan, Singapore</td>
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<td>LM1.02.11</td>
<td>Effect of maternal exercise during obese pregnancy on the cardiovascular health of male mouse offspring</td>
<td>J. Beeson, Cambridge</td>
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**13:50 – 14:20**

**Jurriaanse foyer**

**Poster walks / posters* (PO1)**

**PO1.01 Adiposity - Early-life factors**

**PO1.02 Cardio-metabolic health - Growth and long-term effects**

**PO1.03 Epigenetics - Growth and cardio-metabolic health**

**PO1.04 Gestational diabetes**

**PO1.05 Respiratory and atopic disease**

**PO1.06 Metabolomics and circadian rhythm**

**PO1.07 Neurodevelopment - Early-life exposures**

**PO1.08 Nutrition - Metabolic health, socio-economic and behavioral factors**

**PO1.09 Nutrition - micronutrients**

**PO1.10 Population health**

**14:20 – 15:30**

**Parallel session PA1.06**

**Genetics of DoHaD**

Chairs: N. Timpson / R. Freathy

**14:15** PA1.06.01 Mendelian randomisation in a DoHaD context: what does this mean? | N. Timpson, Bristol |

**Submitted abstracts**

(8 minute orals)

**M. Taylor, Bradford**

**PA1.06.03** Assessing causality in associations between maternal adiposity and perinatal birth outcomes in mothers and offspring: A Mendelian randomization approach

**PA1.06.04** Genome-wide association study identifies three novel genetic determinants of dental maturation | O. Grgic, Rotterdam |

**PA1.06.05** Transgenerational programming of methylation and gene expression in the prefrontal cortex (PFC) by glucocorticoids | A. Constantinof, Toronto |

**Parallel session PA1.07**

**Biological clock**

Chairs: G. van der Horst / I. Reiss

**14:15** PA1.07.01 Developmental Origin of Health and Disease (DOHaD) and the circadian clock: later life health effects of gestational circadian rhythm disturbance in mice | G. van der Horst, Rotterdam |

**Submitted abstracts**

(8 minute orals)

**PA1.07.05** Impact of postnatal light conditions on development and later life health | I. Chaves, Rotterdam |

**PA1.07.04** Developmental Origin of Health and Disease (DOHaD) and the circadian clock: epigenetics pre- and early postnatal circadian rhythm disturbance in mice | I. Chaves, Rotterdam |

**PA1.07.06** Maternal melatonin or agomelatine therapy prevents programmed hypertension in male offspring of mother exposed to continuous light | Y. Tain, Kaohsiung |

**Parallel session PA1.08**

**Environmental stressors**

Chairs: M. Vrijheid / L. Trasande

**14:15** PA1.08.01 DOHaD and the early-life exposome | M. Vrijheid, Barcelona |

**Submitted abstracts**

(8 minute orals)

**PA1.08.03** Effects of prenatal exposure to particulate matter air pollution on lateral ventricles, corpus callosum and behavioral problems in children | M. Mortamais, Barcelona |

**PA1.08.02** Maternal circulating cotinine concentration in pregnancy and persistent short stature in children from a multi-ethnic Asian cohort | S. Chan, Singapore |

**PA1.08.04** Paternal smoking and risks of birth complications, childhood overweight and obesity: individual participant data meta-analysis of 200,000 singleton births | E. Philips, Rotterdam |

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<th>Early origins of cancer and rare diseases</th>
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<td>Chairs: S. Mahabier / T. Roseboom</td>
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<tr>
<td><strong>14:15</strong> PA1.09.01 Early-life factors and cancer development</td>
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<tr>
<td>S. Mahabier, Bethesda</td>
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<td>Submitted abstracts (8 minute orals)</td>
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<tr>
<td>PA1.09.03 Environment, DNA methylation and risk of childhood acute lymphoblastic leukaemia: a novel Mendelian randomization study J. Timms, Newcastle</td>
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<tr>
<td>PA1.09.04 DNA methylation as a potential mediator of early-life exposures on risk of childhood acute lymphoblastic leukaemia J. Timms, Newcastle</td>
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<td>PA1.09.05 Epigenetic precursors of childhood cancer and associated early-life exposure A. Ghantous, Lyon</td>
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<th>Parallel session PA1.10</th>
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<td>Chairs: K. Godfrey / V. Grote</td>
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<tr>
<td><strong>Submitted abstracts (8 minute orals)</strong></td>
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<tr>
<td>PA1.10.01 Paternal obesity modifies the effect of an antenatal lifestyle intervention in women who are overweight or obese on newborn anthropometry J. Dodd, North Adelaide</td>
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<td>PA1.10.02 Effect of maternal cafeteria diet and taurine supplementation on body and organ weights of the offspring A. Kabasakal Çetin, Ankara</td>
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<td>PA1.10.03 DNA-methylation and body composition in pre-school children of the CHOP study- Are methylation variants associated with further body composition development? P. Rzechak, Munich</td>
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<td>PA1.10.04 Maternal diabetes impairs fetal brown adipose tissue development N. Lin, Hong Kong</td>
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<td>16:00 – 17:30</td>
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<td>Parallel session PA1.11</td>
<td>Chairs: J. Morrison / I. Reiss</td>
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<td>Plenary session PL1.02</td>
<td>Chairs: N. Timpson / J. Felix</td>
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<td>17:40 – 19:00</td>
<td>Arcadis Zaal</td>
<td>Parallel session PA1.12</td>
<td>Chairs: C. Yajnik / R. Steegers-Theunissen</td>
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<td>Parallel session PA1.13</td>
<td>Chairs: B. Koletzko / R. Gaillard</td>
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**Plenary session PL1.02**

**Mechanistic studies in DOHaD**

16:00 PL1.02.01 Exploring mechanisms and examples of paternal epigenetic inheritance

S. Kimmins, Montreal

16:30 PL1.02.02 Programming by maternal over-nutrition: a developing obesity crisis

S. Ozanne, Cambridge

17:00 PL1.02.03 Genetics of birth weight and later life diseases

R. Freathy, Exeter

**Parallel session PA1.11**

Experimental fetal and neonatal models

Chairs: J. Morrison / I. Reiss

17:45 PA1.11.01 Consequences of fetal hypoxia: Does it all come down to timing, duration and severity?

J. Morrisson, Adelaide

18:00 PA1.11.03 Consequences of fetal and neonatal adaptation to a hypoxic environment

I. Reiss, Rotterdam

**Submitted abstracts**

(8 minute orals)

PA1.11.05 Sex-specific programming of cardiac bioenergetics by chronic hypoxic pregnancy and mitochondria-targeted antioxidant therapy

A. Spiroski, Cambridge

PA1.11.06 Low level arsenic exposure during pregnancy in 3xG cohort in Flanders: increased maternal oxidative stress and reduced birth weight

N. Lambrechts, Mol

**Parallel session PA1.12**

Folate and other nutrients

Chairs: C. Yajnik / R. Steegers-Theunissen

17:45 PA1.12.01 Life course evolution of vitamin B12 deficiency in young rural Indian adults

C. Yajnik, Pune

18:00 PA1.12.03 The impact of periconception folic acid on reproduction, care and health.

R. Steegers-Theunissen, Rotterdam

**Submitted abstracts**

(8 minute orals)

PA1.12.05 Advanced glycation end products-rich diet during pregnancy affects early somatic and motoric development and metabolic status of offspring in mice

K. Sebekova, Bratislava

PA1.12.06 Maternal genetic polymorphisms affect plasma vitamin B12 levels during pregnancy and impact the neonatal epigenome

N. Karnani, Singapore

**Parallel session PA1.13**

Maternal obesity and gestational disorders

Chairs: B. Koletzko / R. Gaillard

17:45 PA1.13.01 Maternal hypertensive disorders of pregnancy and cardiovascular disease risk factors in offspring at age 40 years

S. Timpka, Malmö

18:00 PA1.13.02 Maternal pre-pregnancy overweight and obesity consequences for later health

S. Timpka, Malmö

18:00 PA1.13.03 Achieving late-pregnancy glycemic control is beneficial for the long-term health of obese mothers and their children—the PEACHES mother-child cohort

D. Gomes, Düsseldorf

18:00 PA1.13.04 Excess maternal gestational weight gain is associated with early timing of pubertal onset in daughters

A. Kubo, Oakland

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<td><strong>Obesity and cardiovascular risk</strong></td>
<td>Chair: N. Modi/ A. Marcus de Andrade Paes</td>
<td>Chair: N. Rollins</td>
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<tr>
<td><strong>PA1.14.01</strong> Neonatal adiposity; determinants and consequences for later health</td>
<td><strong>PA1.15.01</strong> Launch of the Health Life Trajectories Initiative (HeLTI): an international DOHaD research collaboration</td>
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<tr>
<td>N. Modi, London</td>
<td>Background and vision of HeLTI and why the respective funding agencies have chosen to invest in HeLTI</td>
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<td><strong>PA1.14.03</strong> Birth weight and subsequent risk of obesity across two generations in Chinese females</td>
<td><strong>S. Lee, Ottawa</strong></td>
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<td>Y. Fang, Shanghai</td>
<td>The Sino-Canadian Healthy Life Trajectories (SCHeLTI)</td>
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<td><strong>PA1.14.04</strong> Body mass index trajectories associated with resolution of elevated adiposity in youth and incident adult obesity</td>
<td>H. Huang, Shanghai and W. Fraser, Sherbrooke</td>
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<td>M. Buscot, Hobart</td>
<td>Early Interventions to Support Trajectories for Healthy Life in India (EINSTEIN)</td>
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<td><strong>PA1.14.05</strong> BMI change during puberty is a novel risk factor for adult heart failure</td>
<td><strong>K. Kumaran, Mysore and S. Matthews, Toronto</strong></td>
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<td>M. Bygdell, Gothenberg</td>
<td><strong>BUKHALI: the South African HeLTI cohort</strong></td>
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<td><strong>PA1.15.07</strong> Prenatal exposure to phthalates in relation to epigenetic and metabolomic markers in a birth cohort with high risk of obesity</td>
<td><strong>S. Norris, Johannesburg and S. Lye, Toronto</strong></td>
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<td>PA1.11.07</td>
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<td>PA1.13.05</td>
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<tr>
<td>Effect of maternal antioxidant MitoQ treatment on aged offspring cardiovascular function in a rat model of intrauterine growth restriction (IUGR)</td>
<td>Exposure to low-dose vitamin D from fortification in prenatal life and risk of childhood asthma: Results from the D-Tect study</td>
<td>Unfolded protein response in developing intestine inhibited by maternal obesity</td>
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<td>M. Aljunaidy, Edmonton</td>
<td>F. Thorsteinsdottir, Fredriksberg</td>
<td>K. Kennedy, Hamilton</td>
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<td>PA1.11.08</td>
<td>PA1.12.08</td>
<td>PA1.13.06</td>
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<tr>
<td>How safe is ART? Effect of in vitro fertilisation (IVF) and prolonged embryo culture on mouse development and postnatal health</td>
<td>Folic acid supplementation partly mitigates adverse health outcomes caused by perinatal exposure to Arctic contaminants in a rat model</td>
<td>Cord metabolic profiles in obese pregnant women; insights into offspring growth and body composition</td>
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<td>A. Aljahdali, Southampton</td>
<td>J. Bailey, Quebec City</td>
<td>B. Koletzko, München</td>
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19:00 – 20:00

20:00 – 22:00 Rotterdam Bridge Run

*For more information on poster sessions, please see page 36
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<th>Willem Burger Zaal</th>
<th>Van Weelde Zaal</th>
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<tr>
<td>PA1.14.06</td>
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<td>Qualityatively distinct child to adult BMI trajectories and adult cardiometabolic outcomes</td>
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<td>M. Buscot, Hobart</td>
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<td>PA1.14.07</td>
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<td>The development of the obesity epidemic across age, time and socioeconomic position: evidence from five UK birth cohort studies</td>
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